1 Analyzer

The Analyzer is what analyzes the syntax trees generated by the Parser and ensures that everything is valid.

```
module Analyzer where
  import Data.Map (Map)
  import qualified Data.Map.Strict as Map
  import Parser
```

The analyze function is the heart of this whole system, kicking off the whole process of inferring and checking types. If all works out correctly, it returns a `True`. If not, an `AnalysisError`.

```
analyze :: AST → Either AnalysisError Bool
analyze ast = Right True

-- TODO: investigate proper error handling methods
newtype AnalysisError = AnalysisError String
```